SAMSUNG

| MZ-7PC064 | Rev. 3.1
MZ-7PC128
MZ-7PC256
MZ-7PC512

Samsung Solid State Drive
Quick User Manual

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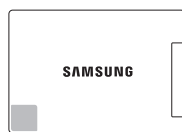
1. Unpacking

Check your product box for the following items, also please refer to the back of the package to see the installation kit you have purchased. The illustrations may differ from your actual items.

Basic Contents

SSD

Manual kit

Manual CD
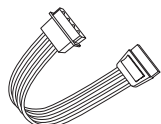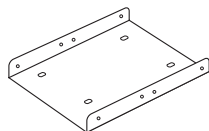Quick User Manual

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Installation Kit
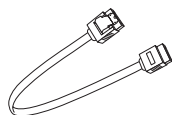
Desktop PC		Laptop PC	
	SATA cable		SATA to USB cable
	SATA Power Cable		Mounting spacer
	Bracket		Norton Ghost CD
	Screws		
	Norton Ghost CD		
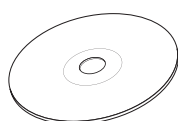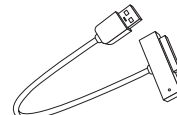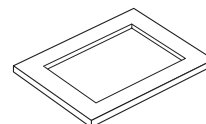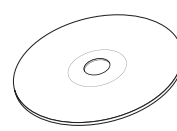
2. SSD (Solid State Drive) Overview

Solid State Drives, or SSDs, are innovative data storage devices that deliver high performance, reliability, and quality by using NAND Flash memory instead of the magnetic disks used in traditional Hard Disk Drives (HDDs). SSDs provide very fast PC booting and application loading speeds and perform exceptionally well in multi-tasking environments – all while consuming less power, emitting very little heat, producing no noise, and offering outstanding stability compared to conventional HDDs. Please visit www.samsung.com/SSD for more information on SSD technology.

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3. Precautions

Injury or product damage may occur if the following guidelines are not followed.

Handling Precautions

1	Shock	SSDs are built to withstand shock and vibration and can protect data with greater safety than conventional HDDs. However, please protect the product against severe shock. Excessive shock may damage SSD components and may also cause hardware detection failures or operational failures when installed in your PC. In addition, severe shock may open or break the SSD cover.
2	Short Circuit	Please keep metal objects out of the SATA interface circuit. The SSD may short circuit if the SATA interface comes into contact with a metal object or is exposed to electric shock. This may cause hardware detection failures or operational failures.
3	Disassemble/ Damage/ Removal	Please do not disassemble the SSD, damage the SSD, or remove the sticker or the label affixed on the product. Any product that has had its case opened or its label damaged or removed shall not be covered by the warranty.

Installation Precautions

1   Please ensure that the PC power is turned OFF and the power cable is unplugged before removing the PC cover to install the SSD. Serious damage may occur if an HDD is removed or an SSD is installed while the PC power is turned on. Even though many PCs and storage devices support SATA's Hot Plugging (Hot Swapping) feature, Samsung strongly recommends that you turn the PC power OFF before starting the installation process.

NOTE: Hot Plugging (Hot Swapping) allows changing storage devices while the PC power is turned on.

2   If an existing SATA HDD is being replaced with an SSD, you can use the existing SATA interface cable and SATA power cable. If the SSD is being newly installed to your desktop PC, then you should prepare some necessary items, such as a SATA interface cable, SATA power cable, 3.5 inch adapter bracket, screws, etc. If the SSD is being installed in your laptop PC and you would like to perform a Data Migration, please prepare a USB to SATA adapter cable. If you purchased an 830 series with an installation kit appropriate to your system type (desktop/laptop), the necessary items will be included in the box.

3   A SATA interface cable that is longer than 1 meter may result in hardware detection failures or operational failures.

NOTE: SATA cables are compatible with all SATA interface types (SATA 1.5 Gb/s, 3Gb/s, and 6Gb/s).

4   Please check the terms and conditions of your PC manufacturer's warranty since it may prohibit the user from disassembling the PC and self-installing the SSD.

5   This SSD 830 Series is designed, manufactured, and certified for general desktop PC and laptop PC environments for use as a primary or secondary storage drive. It is not intended or allowed to be used in enterprise server systems, workstations, storage systems, PC cache memory or in any other manner. If you need SSDs for such applications or environments (or for another scenario other than general PC use), please purchase a different product made specifically for such a purpose.

*   **Data Backup**

Samsung Electronics does not warrant the data stored in the SSD and will not be held liable for tangible/intangible damages associated with data restoration. Therefore, please be prepared for the unexpected by backing up any important data to another storage medium. You may use the full version of Norton Ghost included with your SSD to accomplish this. Please refer to the quick manual on the CD that came in your box and available online at www.samsung.com/SSD for more information on this process.

*   **SSD Capacity**

The actual capacity may differ from that indicated on the product label depending on the drive formatting method, partitioning, and computer OS. (1MB=1,000,000 bytes/1GB=1,000,000,000 bytes).

4. Data Migration

NOTE: If you prefer to do a clean OS install, you may skip this section.

For Windows users, a full version of Norton Ghost 15.0 is included with every SSD 830 Series. Please refer to the "Norton Ghost – Data Migration" User Manual included on the CD that came in your box and available online at www.samsung.com/ssd for detailed instructions on migrating all of your data, including your OS install, to your new SSD. If you have installed Samsung SSD Magician on your computer, this manual is also available from the "Site Link" section of that software.
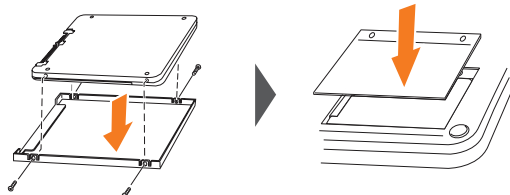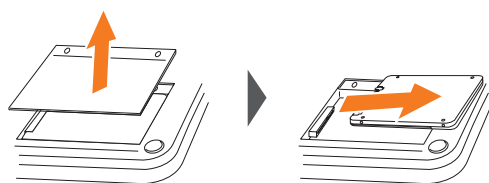
Macintosh users can complete a data migration using the native Disk Utility application. Insert the Restore DVD that came with your computer and restart while holding down the "C" key.

5. Hardware Installation Guide

This section briefly describes the installation procedures of the SSD.

For more information, please refer to the user manual of your PC.

Laptop PC

1   Turn OFF the laptop PC power. Disconnect the power plug and remove the battery from the PC.

2   Remove the HDD cover on the back of the laptop PC and carefully remove the HDD from the bay without damaging the HDD connector.

3   If the HDD is fixed with a bracket, disassemble the HDD from the bracket. Be careful when you disconnect the connector/cables from the HDD.

4   Precisely assemble the SSD with the bracket and connect the cable.

5   Carefully insert the SSD into the bay and close the HDD cover.

   NOTE: If needed, place the mounting spacer into the bay for tight fit.

6   Reinstall the battery.
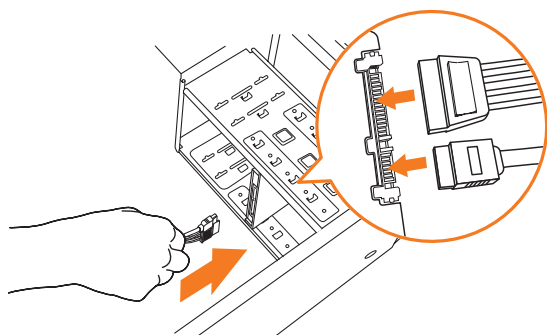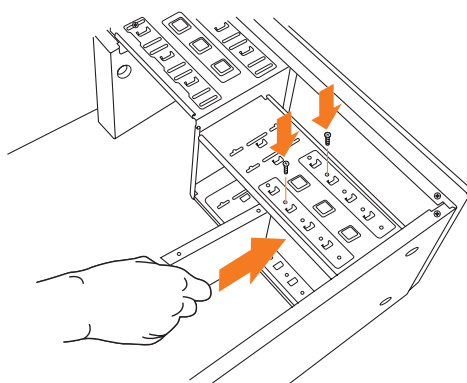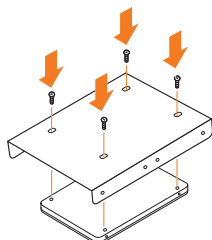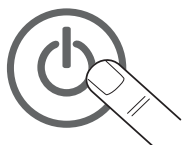
1   Turn OFF the desktop PC power and disconnect the power cable.

2   Remove the desktop PC cover.

3   If you are adding the SSD as an additional storage device, mount it in a 2.5" HDD bay. Next, connect the SATA cable and power cable to the SSD. If your PC is only equipped with 3.5" HDD bays, attach the SSD to a 2.5" to 3.5" adapter bracket before mounting it in an empty HDD bay or slot.

4   If you are replacing an existing HDD with the SSD, disconnect all cables connected to the HDD and then remove the HDD from the bay. Attach the SSD in a 2.5" to 3.5 bracket and mount the bracket in an empty HDD bay. Finally, properly connect the SATA cable and power cable.

NOTE: Desktop PCs have multiple SATA ports, depending on the PC chipset and motherboard model. Samsung recommends that the SSD be connected to the lowest numbered SATA 6Gb/s port.

Although the 830 Series SSD is compatible with both the SATA 3Gb/s and 6Gb/s ports, for maximum performance the product must be connected to a SATA 6Gb/s port.

Most Desktop PCs have 4~6 SATA ports, and each SATA port is numbered on the motherboard.

If SATA port numbers are not shown on the motherboard or you are not sure about port numbers, then you can simply install the SSD on any available port.

Usually SATA 6Gb/s ports are indicated by blue colors to distinguish itself. For more information please refer to your PC or motherboard user manuals.

5   Close the desktop PC cover and reconnect the PC power cable.

6. BIOS Configuration

NOTE: Mac users can skip this section.

In most cases, the system will automatically detect the newly installed SSD when you restart the PC. If not, please follow the procedure below or refer to the user manual of your PC.

1   Turn the PC power ON.

2   Press the special key for your system to get into the PC BIOS settings (also called CMOS) during the initial boot process.

3   After entering the PC BIOS, make sure that your PC BIOS recognizes your Samsung SSD 830 series and that the operation mode is set to either [AHCI] or [RAID] (depending on how you want to configure your system).

4   Save the changes you made to the BIOS settings and reboot the PC.

NOTE: The way to get into the BIOS and the settings menu itself differs between PC manufacturers In most cases, the key is the F2 or Delete key. Some PC manufacturers have the BIOS optimized exclusively for their PCs and may provide only limited settings and options.

Some PC chipsets do not support [AHCI] operation mode even if they support the SATA interface. Refer to your PC's user manual for more information.

For users who are completing a data migration with Norton Ghost:
You may stop here. Your computer should boot into Windows as normal.

For users who are doing a clean OS install:
If the BIOS detects the SSD and a booting error message appears during the PC booting process, then the SSD installation has been done correctly and you can now start installing an OS.

7. Operating System (OS) Installation

Samsung recommends that you do a fresh OS install to ensure an optimal operating environment for your new SSD. For detailed OS installation procedures, refer to the user manual or installation guide provided by your OS vendor.

NOTE: If you are using a previous version of Windows, such as Windows XP or Windows Vista, Samsung recommends that you upgrade to Windows 7. Windows 7's AHCI drivers and native TRIM command support allow it to maximize SSD performance and lifetime.

NOTE: The SSD 830 Series may not operate properly under Mac OS X versions older than 10.5 Leopard.

8. Magician Software Installation

NOTE: The Samsung SSD Magician software does not support Macintosh, Linux, or any server operating systems.

Samsung provides dedicated software for the Samsung SSD 470 and 830 Series in order to maintain the best operating environment for your new SSD. The Samsung SSD Magician software provides various maintenance features, including System Information analysis, SSD Performance Optimization (TRIM command), SSD Benchmark testing, Secure Erase, and Firmware updates.

To install the Samsung SSD magician software, please visit www.samsung.com/SSD to download the installation file and user manuals.

NOTE: The Samsung Magician software only supports the 470 and 830 Series SSDs.

9. Certified Specifications

CE   (European Union/Community)
VCCI   (Voluntary Control Council for Interference by Information)
FCC   (Federal Communications Commission)
C-TICK   (Australian Communications Authority certification mark)
KCC   (Korea Communications Commission)
BSMI   (Bureau of Standards, Metrology and Inspection)
cUL   (C- Underwriter's Laboratories, Inc.)
TUV   (Technischer Uberwachungs Verein)
CB   (IECEE CB Scheme)

This marking on products, accessories and/or accompanying documents means that used electrical and electronic equipment should not be mixed with general household waste. For proper treatment, recovery and recycling, take this product to a designated collection point where it will be accepted free of charge. Contact your local authority for further details about your nearest designated collection point. Business users in the European Union intending to discard electrical and electronic equipment should contact their dealer or supplier for further information.

10. SAMSUNG SSD 830 Series Warranty Statement

Thank you for purchasing a SAMSUNG Solid State Drive 830 Series (the "Product"). SAMSUNG values your business and always attempts to provide you the very best quality of service.

PLEASE CAREFULLY READ THE FOLLOWING TERMS AND CONDITIONS BEFORE USING THE PRODUCT PROVIDED BY SAMSUNG ELECTRONICS CO., LTD. ("SAMSUNG"). YOUR USE OF THE PRODUCT CONSTITUTES AGREEMENT WITH THE TERMS AND CONDITIONS OF THIS SAMSUNG SSD WARRANTY STATEMENT ("AGREEMENT"). IF YOU DO NOT AGREE TO THE TERMS AND CONDITIONS OF THIS AGREEMENT, DO NOT USE THE PRODUCT.

A. Warranty Policy

SAMSUNG warrants to the original end user customer or purchaser of this Product ("You") that the Product is free from material defects and workmanship, subject to the conditions stated herein.

In the event SAMSUNG determines, in its sole discretion, that the Product suffers from material defects in manufacture and does not substantially conform to the published specifications under normal use, for as long as You own the Product, and subject to the conditions and exceptions stated in this Agreement, SAMSUNG will, at its option, either: (1) repair or replace the Product with new or refurbished Product of equal or greater capacity and functionality; or (2) issue a credit, less any rebates, in accordance with the credit schedule provided in Section E of this Agreement. In the case of replacements, SAMSUNG may replace Your Product with one that was previously used, repaired and tested to meet SAMSUNG specifications. This warranty is provided only to You and is not transferable. Proof of purchase may be required.

THIS AGREEMENT CONTAINS SAMSUNG'S ENTIRE LIABILITY AND YOUR EXCLUSIVE REMEDY FOR BREACH OF THIS AGREEMENT. SAMSUNG DISCLAIMS ALL OTHER EXPRESS AND IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL SAMSUNG, ITS SUPPLIERS OR ANY AFFILIATES BE LIABLE FOR ANY INDIRECT, CONSEQUENTIAL, INCIDENTAL OR SPECIAL DAMAGES, ANY FINANCIAL LOSS OR ANY LOST DATA OR FILES, EVEN IF SAMSUNG HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE AND NOTWITHSTANDING THE FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY. IN NO EVENT WILL SAMSUNG'S LIABILITY EXCEED THE AMOUNT PAID BY YOU FOR THE PRODUCT. THESE LIMITATIONS AND EXCLUSIONS APPLY TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW.

B. Warranty Limitations

The warranty stated herein shall not apply if: (i) the Product was not used in accordance with any accompanying instructions, (ii) the Product was not used for (for example, SSD 830 Series used in an enterprise server systems, workstations, storage systems or PC cache memory) out of the presence of a third party product, software or component, whether authorized or not, (iv) any failure or defect was a result of improper installation, misuse, unauthorized repair, modification or accident, and (v) there exist any other circumstances which SAMSUNG determines is evidence of a breach of this Agreement by You.

You agree that the Product shall not be used in life support systems or other applications where failure could threaten injury or life. SAMSUNG disclaims any and all liability in connection with, arising out of, or related to, any such use of the Product.

SAMSUNG's warranty also does not cover Products which, by way of example, have been received improperly packaged, altered, or physically damaged. Products will be inspected upon receipt. You can refer to a non-exhaustive list of examples of the warranty limitations below.

- Improperly packaged or shipped, including use of non-qualified shipping container
- Any alterations, modifications, or physical damage of the Product, including but not limited to, deep scratches
- Any alterations, modifications, or removal of any SAMSUNG labels or barcodes on the Product
- Opened SSD casing
- Tampered or missing tape seal or serial number

C. Warranty Period

Type	Period
SSD 830 Series for Desktop PC & Laptop PC Usage	3 years

D. Return Procedure and Guidelines

SAMSUNG will not provide any warranty coverage unless claims are made in compliance with the proper return procedure. For more information regarding warranty service and customer support, You may contact an authorized SAMSUNG service center or refer to www.samsung.com/SSD. For more information regarding the location of authorized SAMSUNG service centers as well as access to the SAMSUNG automated customer service directory, You may call +1-800-SAMSUNG. Callers outside the United States can reach this service by dialing each region's authorized SAMSUNG service centers. If determined necessary, You will be asked to provide Your name, address, phone number, email and the Product serial number. You will then be issued a Return Material Authorization ("RMA") number that must be included when returning the Product to SAMSUNG.

Products returned to SAMSUNG must be properly packaged in either its original packaging or packaging that provides protection equivalent to the original packaging and then sent to the address provided when receiving Your RMA Number. An unauthorized return, i.e. one for which an RMA number has not been issued or improperly packaged, will be returned to You at Your expense. Customer is responsible for the shipping charges to the service center and SAMSUNG will cover the shipping cost when sending a replacement Product to the customer if replacement is deemed to be necessary by SAMSUNG.

You are advised to ship any Products to SAMSUNG with the benefit of tracking information, as SAMSUNG is not responsible for any damage or loss to the Product while in transit. SAMSUNG also recommends that all data on the Product should be backed up before being sent to SAMSUNG. In the case of replacements, ownership of the original Product will be transferred to SAMSUNG and SAMSUNG will not return original Product to You. Data recovery is not covered under this warranty and is not part of the repair or replacement process. SAMSUNG is not liable for any data loss or corruption in any cases.

You hereby acknowledge and agree that each region may have regional specific warranty implications that may change the terms and conditions of this Agreement in its specific application to You.

- For detailed information, please contact to SAMSUNG or an authorized SAMSUNG service center.

Area	Center	Contact Point	Remark
U.S.A (New Jersey)	TTS	Email: support@totalts.com Phone: +1-201-935-0670~1	End user support only

E. Credit Schedule

In the event SAMSUNG elects to provide You with a credit in accordance with the terms and conditions of this Agreement, SAMSUNG will remit to You such credit in accordance with (i) the stage of the Product in its applicable warranty term, and (ii) the current sales price of the same model of the Product or one of similar capacity. Remittance will be provided as follows:

Year of Warranty (From the date of Purchase)	Percentage of Current Sales Price of Product or Similar Product
Within One year	100%
Within Two year	75%
Within Three year	50%

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SAMSUNG ELECTRONICS CO., LTD.

www.samsung.com/ssd